



State of the Planet

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Web Resources on Soils and Food Security

To accompany

Tropical Soils and Food Security: The Next 50 Years

M. A. Stocking

Science **302**, 1356-1359 (2003)

[\[Abstract\]](#) [\[Full text\]](#)

(from the [State of the Planet](#) series)

- [Web Sites of Interest](#)
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Web Sites of Interest on Soils and Food Security

Selected U.N. FAO Sites

[AAAS Atlas of Population and Environment](#)

Free online version of comprehensive reference on geographic relationships between population and environment; includes sections on [foodcrops](#) and [land use](#).

[Development Gateway: Food Security](#)

Interactive site for information on sustainable development and poverty reduction that includes links to news, conferences, and current research.

Special Programme for Food Security

A program of the [Food and Agriculture Organization](#) of the United Nations that helps developing countries achieve food security through improved nutrition and agricultural development.

FAO Land and Water Development Division

Rich gateway to myriad resources on soil biodiversity and fertility, country-specific soil data, and more. Includes a [soil biodiversity portal](#) with a wealth of basic information.

Terrastat

A database of country statistics on soil, terrain, climatic and agricultural land use limitations, from the FAO's [Land and Water Development Division](#).

Agriculture 21: Magazine and Guide

Exhaustive archive of news and information on agriculture, biotechnology, natural resource management, and food safety and security, made available by the [FAO](#).

World Food Summit: Five Years Later

Report from an international alliance devoted to reducing world hunger.

Other Online Resources

Livelihoods Connect

A learning platform for creating sustainable livelihoods to eliminate poverty, complete with information resources, case studies, and project summaries. Made available by the U.K. [Department For International Development](#) (DFID).

International Soil Reference and Information Centre

Netherlands-based foundation for documentation, research, and training about world soil resources, with an emphasis on developing countries. Headquarters of the [World Data Center for Soils](#)

Tropical Soil Biology and Fertility Institute

A division of the [International Center for Tropical Agriculture](#) (CIAT), a nonprofit research organization that aims to reduce hunger and poverty and improve natural resources in developing countries.

Soil Science Society of America

Dedicated to the advancement of soil science as it relates to crop production, environmental quality, and ecosystem sustainability.

Food Security and Safety

The May 2002 issue of *Economic Perspectives* (an [electronic journal](#) of the U.S. State Department) discussed a range of topics relating to food security, with an emphasis on U.S. policy.

Food Security Network

Links to recent global food security and agriculture news, organized by region.

Worldwide Portal to Information on Soil

[U.N. World Food Programme](#)

Web site of "the world's largest humanitarian agency."

[Soil Quality Institute](#)

A program of the USDA [Natural Resources Conservation Service](#) and a comprehensive source of information on soil quality research, soil use and management, and soil education.

[International Food Policy Research Institute](#)

Collects, analyzes and distributes data on economic growth and poverty alleviation in developing countries, and the management of the natural resources that support agriculture. Site's [2020 Vision](#) section includes a variety of worthwhile downloadable [publications](#), including [Reaching Sustainable Food Security for All by 2020](#).

[Health](#)

Extensive database of annotated English- and Spanish-language Web resources related to soil health and management.

Selected Previous *Science* Articles on Soils and Food Security

Science for African Food Security

Gordon Conway and Gary Toenniessen
Science **299**, 1187-1188 (2003)
[\[Summary\]](#) [\[Full text\]](#)

Soil Fertility and Biodiversity in Organic Farming

Paul Maeder *et al.*
Science **296**, 1694-1697 (2002)
[\[Abstract\]](#) [\[Full text\]](#)

World Poverty and Hunger -- The Challenge for Science

Ismail Serageldin
Science **296**, 54-58 (2002)
[\[Summary\]](#) [\[Full text\]](#)

Integration of Environmental, Agronomic, and Economic Aspects of Fertilizer Management

Pamela A. Matson, Rosamond Naylor, and Ivan Ortiz-Monasterio
Science **280**, 112-115 (1998)
[\[Abstract\]](#) [\[Full text\]](#)

Long-Term Agroecosystem Experiments: Assessing Agricultural Sustainability and Global Change

Paul E. Rasmussen *et al.*
Science **280**, 893-896 (1998)
[\[Abstract\]](#) [\[Full text\]](#)

Agricultural Intensification and Ecosystem Properties

Soil Fertility and Hunger in Africa

Pedro A. Sanchez

Science **295**, 2019-2020 (2002)

[\[Summary\]](#) [\[Full text\]](#)

Forecasting Agriculturally Driven Global Environmental Change

David Tilman

Science **292**, 281-284 (2001)

[\[Abstract\]](#) [\[Full text\]](#)

U.S. Soil Erosion Rates--Myth and Reality

Stanley W. Trimble and Pierre Crosson

Science **289**, 248-250 (2000)

[\[Summary\]](#) [\[Full text\]](#)

The U.S. Carbon Budget: Contributions from Land-Use Change

R. A. Houghton, J. L. Hackler, and K. T. Lawrence

Science **285**, 574-578 (1999)

[\[Abstract\]](#) [\[Full text\]](#)

Biotechnology and Food Security in the 21st Century

Ismail Serageldin

Science **285**, 387-389 (1999)

[\[Abstract\]](#) [\[Full text\]](#)

Food Production, Population Growth, and the Environment

Gretchen Daily *et al.*

Science **281**, 1291-1292 (1998)

[\[Summary\]](#) [\[Full text\]](#)

P. A. Matson, W. J. Parton, A. G. Power, and M. J. Swift

Science **277**, 504-509 (1997)

[\[Abstract\]](#) [\[Full text\]](#)

From the JSTOR Archive

Environmental and Economic Costs of Soil Erosion and Conservation Benefits

David Pimentel *et al.*

Science **267**, 1117-1123 (1995)

[\[PDF\]](#) (1.7 MB)

Managing the Soils of Sub-Saharan Africa

Rattan Lal

Science **236**, 1069-1076 (1987)

[\[PDF\]](#) (2.4 MB)

World Population Growth, Soil Erosion, and Food Security

Lester R. Brown

Science **214**, 995-1002 (1981)

[\[PDF\]](#) (1.9 MB)

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